

- 1. (2) -

2. (warping section)

2.1

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가 .

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가 가

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가 .

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(，)

가 .

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.

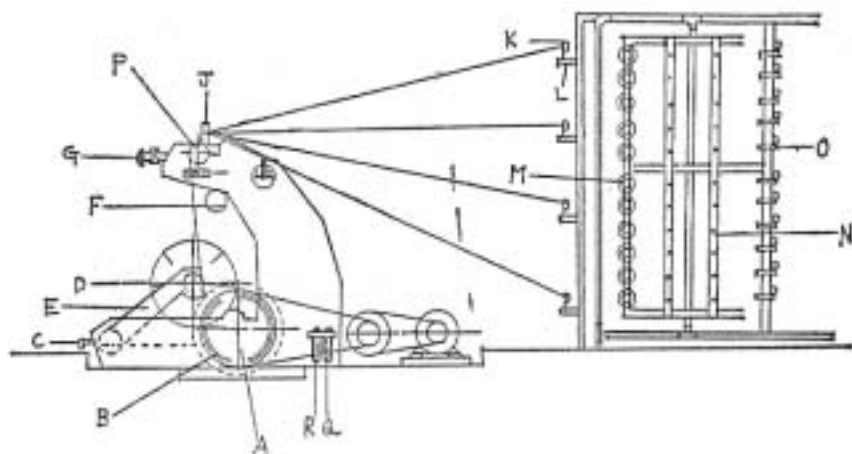
2.2

(1)

， ， ，

.

(beam warper), (sectional warper), (drum
warper), (ball warper) .



< 2-1> () C

A : (drum) B : (brake shoe) C : (foot pedal)
D : (slasher beam) E : (spanner arm)
F : (eliminostat) G : (push button box)
H : (auto counter) I : (doffing switch) J : (comb)
K : (stop wire) L : (stop motion device)
M : (peg) N : (turn table) O : 가 (thread guide)
P : 가 (guide roller) R : (oil lubricator)

(2) (, beam warper)

. 500

6-10

1 . (: head) (creel)

. < 2-1 >

가

가

(non-drum)

가

가

가

가

()

가

.

(soft)

600~900m/min .

< 2-1>

, , , .

.

1) (tension device)

(sheet)

(falling roller system)

(falling rod system)

(raising roller system)

.

2~3 (frame)

.

.

2)

가

가

,

가

가 .

(automatic thread-stop motion)

가

.

(automatic measuring and stop motion)

가

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3) (frictional clutch)

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.

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(frictional clutch system)

(fast and loose pulley system)

4)

가

.

.

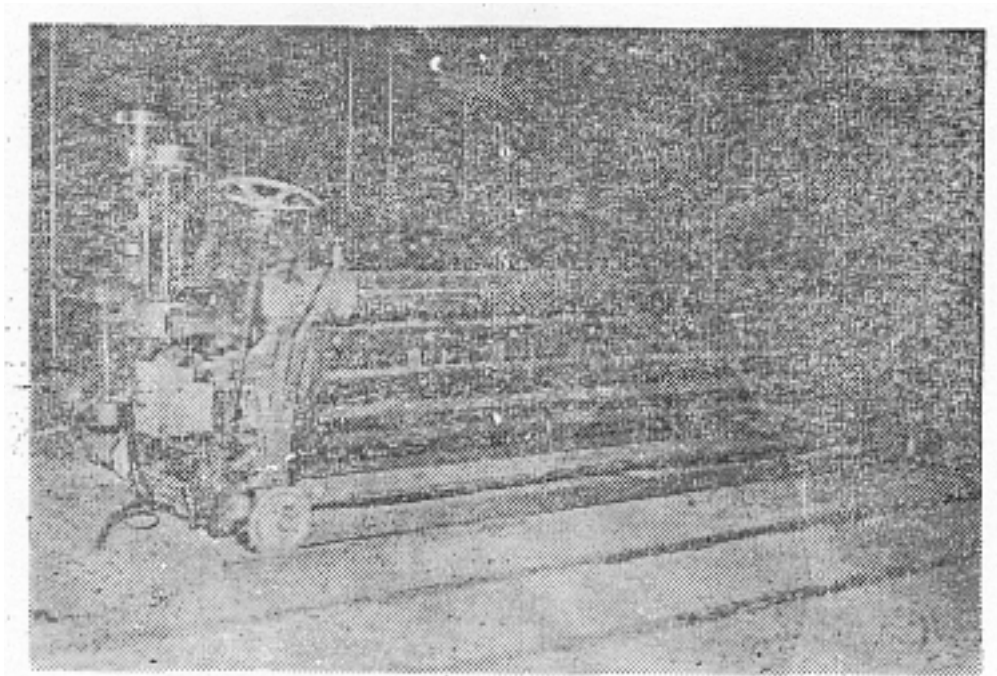
(3) (sectional warper)

()

가 .

(gingham)

. < 2-2, 2-1 > .



< 2-2> Kyosin Machinery Co. High Speed Sectional Warper : K-50-111 Type

< 2-1> ()

rpm

	4pole()				6pole()			
	50cycle		60cycle		50cycle		60cycle	
1	21	552	25	62.5	14	35	17	52.5
2	36	90	43	107	24	60	29	72.5
3	59	147	70	175	39	97.5	47	117
4	83	207	100	250	56	140	66	165

1)

(hand sizing)

가 . →

(hank) → 가 (sizing) → → .

가

가 .

.

가

(strape) .

3,000yds~5,000yds .

.

가 .

2)

(creel)

(drum section machine)

(beam machine)

.

a)

100~300

(non-creel)

300~600

.

가

가 (tensor)

(wood parellel bobbin)

가

가

.

가

.

.

가

.

b)

(repeat)

2m~3m

2.2m

가 .

(elavation device)

(feed)

가

.

(front leasing reed)

가 8 .

c)

((band))

(draft)

(4) (drum warper)

(5) (ball warper)

. 1) (creel stand device) 2)

(lease reed device), 3) (warper device), 4) (return

roll device), 5) (main driving) .

(6) (warping reed)

「 」

가

, (

) 1

(open expansion reed) .

(zig zag)

가

(7)

(creel)

가

가

1

2

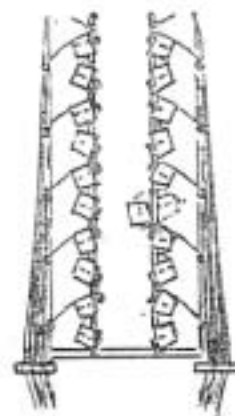
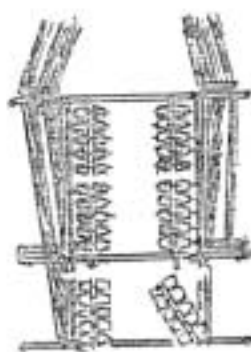
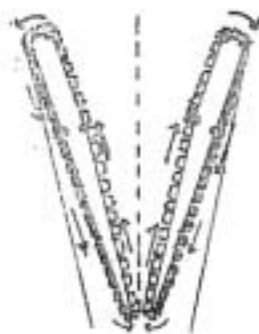
1

가 가

1

V

< 2-3>



< 2-3>

2~5

가

가

(shlafhorst) (Todo)

< 2-2> .

< 2-2>

	V.D.W	T-36	D
	non-Drum	non-Drum	non-Drum
(m/min)	700	1,000	150~600
(mm)	762, 1,003	915	810
(mm)	1,378, 1,683	1,327, 1,627	1,655
	V , H 540,576	1,200	612
	1. V H . 2. V 가 . 3. H .	1. V H . 2. V 3. 2 .	1. H 2. 4 .
	가 (pneumatic) , , .		
	7.5kw V.S	15kwV.S	7.5 5.5kw 가